

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P581721

Luminaire Tested: **HC615D010-HM60525830-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC615D010-HM60525830-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.1 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

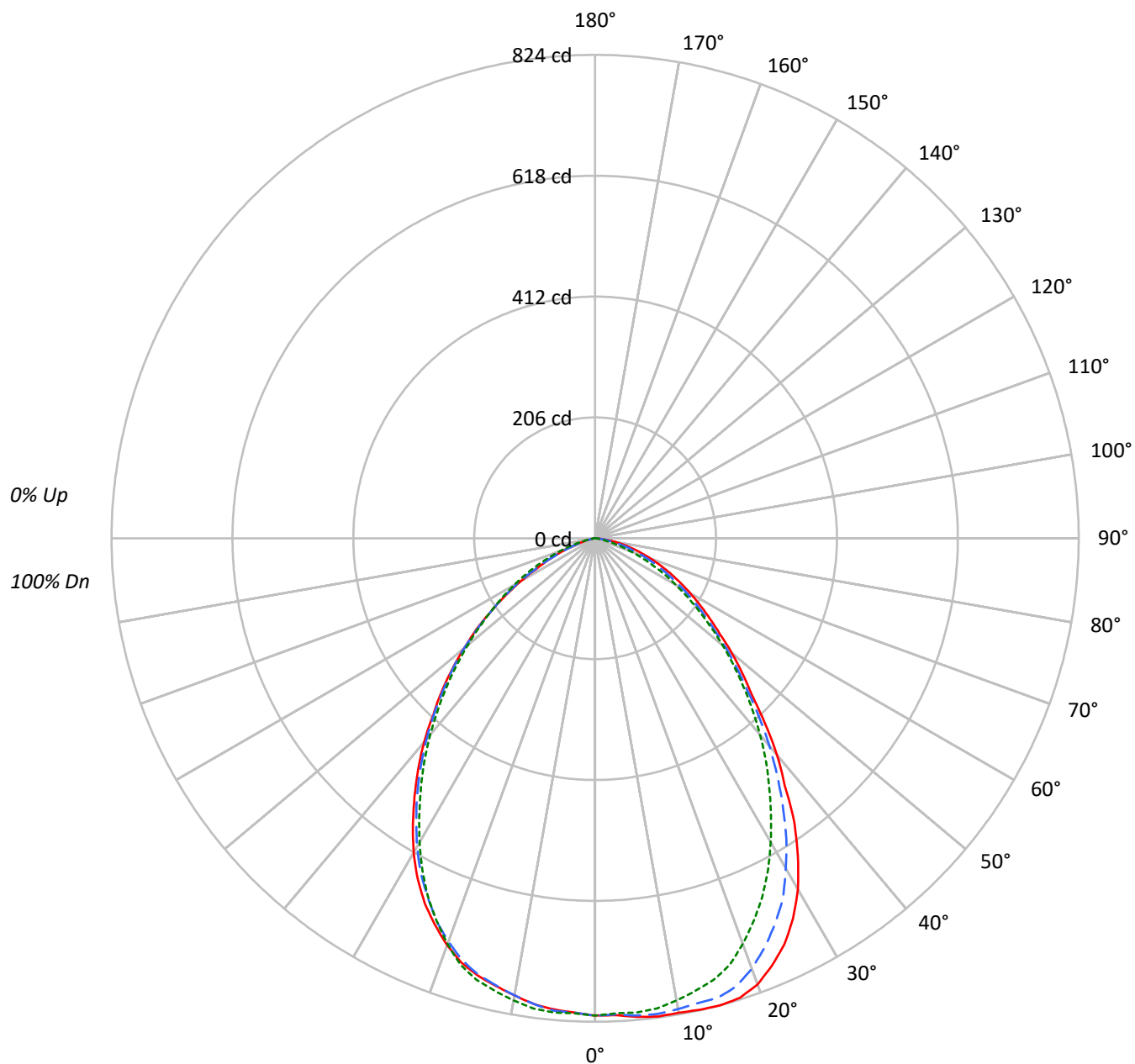
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		91	86	83		87	84	81		85	82	79
3	95	86	79	74	93	84	78	73		82	76	72		79	74	70		77	73	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	38	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	44602	44602	44602
5°	45064	44651	44359
10°	45707	44516	44043
15°	46777	44234	43808
20°	47213	42920	43048
25°	46176	40756	41537
30°	43741	37860	39152
35°	39605	34606	35891
40°	34486	31287	32432
45°	29267	27693	28685
50°	25910	24187	24826
55°	22824	20683	20587
60°	20459	17422	16018
65°	18251	13970	11480
70°	16060	10082	7181
75°	13556	6100	4067
80°	10418	2683	1673
85°	6038	629	629



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	4.8
10°-20°	221.9	13.9
20°-30°	320.8	20.1
30°-40°	337.6	21.2
40°-50°	283.8	17.8
50°-60°	199.2	12.5
60°-70°	109.6	6.9
70°-80°	38.9	2.4
80°-90°	5.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	620.0	38.9
0°-40°	957.6	60.1
0°-60°	1440.6	90.4
0°-90°	1594.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	814	814	814	814	814	
5°	819	817	811	808	806	78
15°	824	810	779	770	772	233
25°	763	725	674	675	687	349
35°	592	558	517	528	536	367
45°	378	367	357	366	370	296
55°	239	226	216	216	215	215
65°	141	126	108	88	88	140
75°	64	51	29	19	19	69
85°	10	5	1	1	1	13
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6	813.6
2.5°	813.6	813.6	812.4	812.4	810.4	810.4	809.3	809.3	809.3
5°	818.9	818.9	816.7	813.6	811.4	808.2	808.2	807.2	806.1
7.5°	822.1	821.1	817.8	813.6	808.2	802.9	800.7	801.9	800.7
10°	821.1	818.9	814.6	806.1	799.7	792.2	791.2	790.1	791.2
12.5°	823.1	819.9	811.4	800.7	790.1	781.6	780.5	780.5	781.6
15°	824.2	821.1	810.4	794.4	779.4	770.9	769.9	770.9	771.9
17.5°	821.1	816.7	800.7	779.4	762.4	753.9	753.9	756.0	758.1
20°	809.3	802.9	780.5	754.9	735.7	729.4	731.5	735.7	737.9
22.5°	787.9	780.5	754.9	726.2	705.9	700.5	705.9	711.2	713.3
25°	763.4	754.9	725.0	695.2	673.8	667.5	675.0	683.5	686.7
27.5°	730.4	720.8	693.0	659.0	637.6	634.5	643.0	652.5	654.7
30°	691.0	680.3	649.3	617.3	598.1	597.1	606.7	615.3	618.5
32.5°	643.0	633.3	606.7	574.8	557.6	557.6	567.3	574.8	577.9
35°	591.8	581.1	557.6	531.0	517.1	518.2	527.8	533.1	536.3
37.5°	531.0	527.8	509.6	487.3	477.7	479.8	487.3	491.6	494.7
40°	481.9	473.4	461.7	443.6	437.2	439.2	446.7	451.0	453.2
42.5°	428.7	423.4	413.7	400.9	396.7	399.9	406.2	409.4	408.4
45°	377.5	376.4	366.8	359.3	357.2	361.5	365.7	368.9	370.0
47.5°	340.2	335.8	327.3	322.0	319.8	324.2	328.4	330.5	330.5
50°	303.8	299.6	291.1	285.8	283.6	287.8	291.1	293.2	291.1
52.5°	267.6	263.3	255.9	249.5	248.5	250.6	251.6	252.7	254.8
55°	238.8	234.6	226.1	218.6	216.4	217.5	216.4	216.4	215.4
57.5°	211.1	206.9	198.3	189.8	186.6	185.6	182.3	181.3	180.2
60°	186.6	181.3	172.7	163.1	158.9	154.6	149.3	146.1	146.1
62.5°	163.1	157.8	148.2	139.7	133.2	125.9	117.2	113.0	113.0
65°	140.7	136.4	125.9	116.2	107.7	98.1	88.5	86.4	88.5
67.5°	119.4	115.2	104.5	94.9	84.2	72.5	64.0	64.0	66.1
70°	100.2	95.9	86.4	74.7	62.9	51.2	44.8	44.8	44.8
72.5°	82.1	77.9	67.2	56.5	44.8	33.0	29.9	30.9	29.9
75°	64.0	60.7	51.2	39.5	28.8	20.2	19.2	18.2	19.2
77.5°	48.0	44.8	36.2	25.5	16.0	11.7	10.7	10.7	10.7
80°	33.0	29.9	23.5	15.0	8.5	5.3	5.3	5.3	5.3
82.5°	20.2	17.0	12.8	7.5	3.2	3.2	3.2	3.2	3.2
85°	9.6	7.5	5.3	2.2	1.0	1.0	1.0	1.0	1.0
87.5°	2.2	2.2	1.0	1.0	0.0	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)